

Differential Thermography

Bau.Tools BlowerDoor

All-season testing procedure for detecting air leakages with BlowerDoor and thermography.

Bau.Tools BlowerDoor is an all-season testing procedure for detecting air leakages and backflows using BlowerDoor and thermography. Even the slightest temperature and pressure differences are sufficient to quickly and accurately locate leakages and backflows with Bau.Tools BlowerDoor, and then visualize them. Flaws that are hardly or not at all visible in a classic thermogram because of very minor temperature differences at differential pressure are calculated via Sequential Analysis and precisely visualized. Since the thermogram only shows the changes within the testing period, air leakages and backflows can be accurately distinguished from other problem areas. A new feature is the computer evaluation of all thermograms recorded during the testing period, resulting in a clear and precise image.

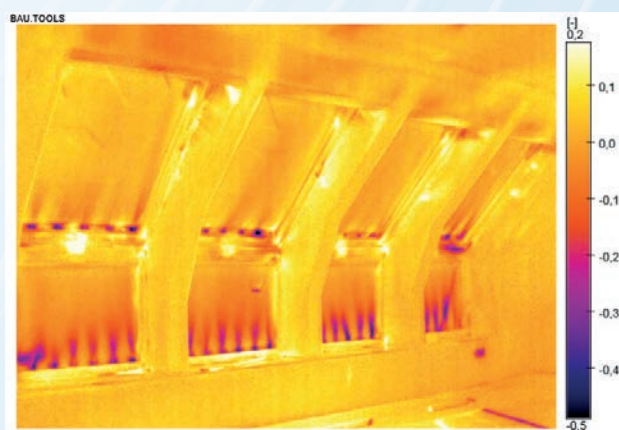
The testing procedure only requires very short excitation times by the BlowerDoor System so that any warming or cooling of the building component is kept extremely low. A number of leaks can be analyzed in succession without a loss of quality and can be detected in a reproducible manner. Even minimal temperature differences are sufficient for the Sequential Analysis, allowing the thermograph to be applied for the most part regardless of climatic conditions, and generally all year round.



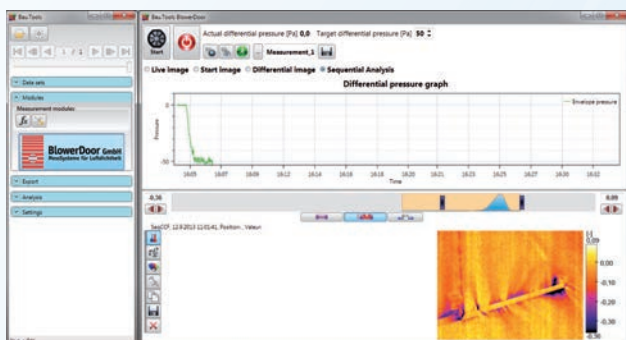
Sunlit window: Thermogram "starting image" Bau.Tools BlowerDoor.



Thermogram "final image" of the recorded sequence. The thermograms do not show any significant differences.



The Sequential Analysis only shows changes during the testing period. The leakages are clearly visible.



New streamlined user interface for intuitive use

Further examples www.blowerdoor.com

Overview of key functions

- Sequential Analysis for precisely displaying temperature differences
- All-season use of Bau.Tools BlowerDoor to reliably visualize air leaks using minimal differences in temperature
- Even the smallest leaks can be reproducibly detected
- Accurate analysis of air leaks and backflows
- Integrated video function
- Free updates and technical support
- Thermal images can be taken indoors or outdoors

Bau.Tools BlowerDoor has been especially developed for use in combination with the Minneapolis BlowerDoor measuring technology, together with an FLIR infrared camera.



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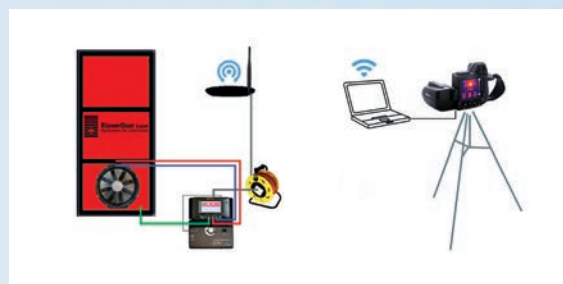
System Requirements

The Bau.Tools software requires the use of the measuring system Minneapolis BlowerDoor Standard or Minneapolis BlowerDoor MiniFan with digital pressure gauge.



Needed accessories for the use of a DG-700

- WiFi-Link
- Laptop rack
- Serial data cable on cable drum (2 x RS 232/50 m)
- External battery box



Needed accessories for the use of a DG-1000

- WLAN-N Repeater (Router), 3 G/3,75 G, Akku powered
- Laptop rack
- Network cable on cable drum (CAT 7AS/FTP/50 m)
- 2 Premium patch cables, red, 2 m

Thermal camera

FLIR-infrared camera with USB, WLAN or Gigabyte Ethernet Connection, tripod.

General computer requirements

The software runs most smoothly on a system that meets the following requirements:

- Current INTEL/AMD CPU
- Full version of either Windows Vista, Windows 7, 8, 10
- Microsoft FRAMEWORK 4.0
- 512 MB storage space
- 75 MB hard drive space free for the program
- Hard drive space for saving infrared images (the amount of space depends on how many images will need to be stored)
- 1024 x 768 screen resolution
- Internet connection for activating and updating the software